

**QUARTERLY PROGRESS REPORT
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE**

TO: Darryl Luce, USEPA
Drew Hoffman, NHDES
Warren Diesl, AECOM Environment

FROM: Work Settling Defendants (WSD)
prepared by Mike Webster, Christene Binger, GeoInsight, Inc.

DATE: April 10, 2009

RE: Quarterly Progress Report

REPORTING PERIOD

☒ January to March – Due April 10th
☐ April to June – Due July 10th
☐ July to September – Due October 10th
☐ October to December – Due January 10th

I. PROGRESS REPORT OVERVIEW

For these Quarterly Progress Reports, representatives of the United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) will be collectively referred to as the “Agency(ies).” Pre-Design Investigation (PDI), Remedial Design (RD), and Remedial Action (RA) activities are being completed at the Dover Municipal Landfill Superfund Site by GeoInsight, Inc. (GeoInsight) and XDD, Inc. (XDD) at the request of the Executive Committee of the Work Settling Defendants (the “Group”). Dean Peschel, Environmental Projects Manager for the City of Dover, is the project coordinator on behalf of the Group.

As requested by Darryl Luce, USEPA Remedial Project Manager, the Quarterly Progress Report was developed to provide an overall summary of completed and ongoing activities. The First Quarterly Report submitted on January 10, 2009 included an overview of objectives and an overall summary of activities at the Dover Municipal Landfill. Going forward, Quarterly Progress Reports will only include updates for on-going PDIs, RD, and RA activities. Only electronic pdf copies of the progress reports will be distributed.

II. OVERVIEW OF LANDFILL ACTIVITIES

This progress report focuses upon activities completed from January to March 2009. Primary activities performed during this reporting period include activities associated with:

- Southern Plume Management of Migration (MOM) Pre-Design Investigation, Remedial Design, and Remedial Action (summary attached);

- Northwest Landfill Hot Spot Remedial Design and Remedial Action (summary attached); and
- Source Control Focused Feasibility Study (SCFFS) (discussed in Section III).

During this reporting period, a Groundwater Management Permit (GMP) Application was approved by the NHDES on March 19, 2009. The GMP establishes institutional controls for a Groundwater Management Zone (GMZ) surrounding the Landfill area and expires in March 2014.

A master schedule of anticipated activities for 2009 was developed to provide the Agencies and the Group with a consolidated, site-wide summary of activities and likely implementation schedule. The master schedule will be updated each quarter and is included as an attachment.

III. STATUS OF SOURCE CONTROL ACTIVITIES

The Draft SCFFS report was submitted to the Agencies on February 22, 2008 and USEPA provided an approval with conditions on November 3, 2008. A Response to Conditions cover letter and revised text, tables, and figures were submitted to the agencies on February 20, 2009.

IV. COMMUNITY RELATIONS PLAN

The following meeting was completed during the first quarter of 2009:

- Dean Peschel and representatives of GeoInsight and the Agencies participated in a public meeting on February 10, 2009 in Dover to present a summary of activities completed in 2008 and review the anticipated schedule for 2009.

V. ATTACHMENTS

The following information is attached to this Progress Report:

- Master Schedule of Anticipated Activities - Year 2009;
- Summary and Status of Activities for:
 - Northwest Landfill Hotspot Remedial Design and Remedial Action
 - Southern Plume – Management of Migration - Ground Water Extraction

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2009
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2009												2010
	Q1			Q2			Q3			Q4			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
SOURCE CONTROL													
Source Control Focused Feasibility Study													
Response to Agency Comments													
Source Control Remedial Design													
Work Plan for Remedial Design (60 days from approval)													
30 Percent Remedial Design (120 days from Work Plan approval)													
75 Percent Remedial Design (90 days from approval of 30 percent design)													
100 Percent Remedial Design (60 days from approval of 75 percent design)													
Northwest Landfill Hotspot Remedial Action													
Site Preparation Activities and Equipment Testing													
Baseline Sampling													
System Start Up													
Seasonal Operation													
Performance Monitoring													
System Shutdown													
Data submittals (with Quarterly Progress Reports)													
MANAGEMENT OF MIGRATION													
Southern Plume - Ground Water Extraction													
Pre-start up system equipment procurement and configuration modifications													
Baseline Sampling													
System Start Up													
Seasonal Operation													
Performance Monitoring													
System Shutdown													
Data submittals (with Quarterly Progress Reports)													
OTHER RESPONSE ACTIONS													
Soil Vapor Intrusion - Indoor Air Pre-Design Investigation													
Focused Monitoring during EMP Events													
Ecotoxicity and Human Health Assessment of the Cocheco River													
Field Sampling Activities													
Environmental Monitoring Plan													
Summary Report: Second Monitoring Event (Winter) Year 2008													
First Monitoring Event (Summer) 2009													
Second Monitoring Event (Winter) 2009													
Summary Report: First Monitoring Event (Summer) Year 2009													
Summary Report: Second Monitoring Event (Winter) Year 2009													
EMP Program Proposed Modifications Summary													

SUMMARY AND STATUS OF ACTIVITIES – Q2 - APRIL 10, 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- an application for the discharge permit from the City of Dover POTW was prepared and submitted on February 18, 2009;
- procurement of system equipment for the 2009 field season;
- attempted baseline gauging on March 24, 2009; however, freezing conditions prevented measurement of depth to water. Data associated with eight pressure transducers were downloaded on March 24, 2009.

2. Deliverables and Correspondence

The following deliverables were submitted or received by the agencies:

- no deliverables during this reporting period.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- baseline gauging re-scheduled for April 16, 2009;
- baseline ground water monitoring April 27 and 28, 2009;
- system startup – anticipated April 29 or 30, 2009;
- weekly system operation, monitoring, and maintenance activities;
- weekly and monthly sampling activities from wells and the frac tank, respectively; and
- on-going evaluation of system performance field data.

4. Status of Activities

Reporting Schedule - Information regarding the Southern Plume MOM will be included in two of the four annual Quarterly Progress Reports as specified in September 26, 2008 100 Percent Design Report, consistent with the following reporting schedule:

- April to July activities will be included in the October Report
- August to November activities will be included in January Report

Remedy Design:	Completed.
Remedy Construction:	100 Percent Complete.
Remedy Implementation:	First operating season completed. Second system operating season to be initiated in the second quarter 2009.

5. Modifications

None.

SUMMARY AND STATUS OF ACTIVITIES – Q2 – APRIL 10, 2009
NORTHWEST LANDFILL HOTSPOT REMEDIAL DESIGN AND REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

2009 Field Work

- Soil vapor extraction and air sparging process piping connections to the equipment trailer were completed on April 3, 2009; and
- Baseline soil vapor, ground water, and air sampling were completed on April 3, 2009.

2. Deliverables and Correspondence

There were no deliverables submitted or received by the agencies during this reporting period.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- the electrical source for the AS/SVE system will be completed;
- the Operation, Maintenance, and Monitoring (OM&M) Plan will be submitted prior to operation of the system;
- the startup and shakedown of the system will be performed; and
- the initial system operation will be conducted according to the final Work Plan submitted to USEPA on October 24, 2008.

4. Status of Activities

Reporting Schedule - AS and SVE system baseline air and ground water sampling results will be included in the second quarter progress report in April 2009. Performance monitoring data will be submitted with the Quarterly Progress Reports as these data become available.

Remedy Design:	Complete.
Remedy Construction:	95 percent complete.
Remedy Implementation:	The remedial system will be started in the second quarter of 2009.

5. Modifications

None.